

CLAIMS

What is claimed is:

1. A power transmission belt having an inner surface comprising longitudinally extending grooves and transverse grooves, the transverse grooves are inclined at an angle less than 90° relative to the longitudinal direction of the belt and all the transverse grooves have the same groove depth, the transverse and longitudinal grooves form transverse rows of cogs on the belt inner surface, wherein the rows of cogs have at least three different longitudinal lengths, and the rows of differing lengths are randomly arranged along the entire length of the belt.
2. A belt in accordance with claim 1 wherein the belt is characterized by the rows of cogs having three different longitudinal lengths.
3. A belt in accordance with claim 1 wherein the belt is characterized by the rows of cogs having three to six different longitudinal lengths.
4. A belt in accordance with claim 1 wherein no more than four longitudinally adjacent rows of cogs have the same longitudinal length.
5. A belt in accordance with claim 1 wherein the belt has three different longitudinal lengths, the smallest length being designated as 1, the medium length being designated as 2, and the largest length being designated as 3, and the sequence around the entire belt is 3 3 3 2 1 2 3 2 3 2 1 1 2 1 1 2 1 2 3 1 3 3 1 2 2 2 1 3 1 2 1 3 1 1 1 2 3 3 2 2 2 3 2 1 1 3 3 3 2 1 2 3 2 3 3 2 1 2 2 1 1 3 2 1 2 3 1 1 3 1 2 3 2 1 1 3 1 2 2 3 3 3 1 1 3 3 2 3 1 1 1 2 2 3 2 1 1 2 1 2 3 3 2 1 1 2 1 2 2 3 3 1 1 3 2 1 2 2 1 1 3 2 2 3 3 3 1 2 2 1 1 1 2 3 2 3 1 1 1 2 1 2 2 3 3 1 1 3 2 1 3 3 2 3 1 3 3 2 3 2 1 2 3 1 3 1 1 2 1 2 1 2 3 2 3 3 3 1 1 2 1 2 3 2 2 2 2 3 3 2 1 1 3 2 3 2 3 1 1 2 3 1 2 1 3 3 2 3 2 1 2 1 2 3 2 1 2 1 2 3 2 1 2 2 3 1 1 1 3 1 3 1 3 2 3 3 2 1 1 2 3 1 2 2 3 2 3 3 3.